

0570
1108

#2

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/976,054

DATE: 11/01/2001

TIME: 08:02:49

Input Set : A:\cytoseq2.txt

Output Set: N:\CRF3\11012001\I976054.raw

2 <110> APPLICANT: Cheikh, Nordine
3 Liu, Jingdong
5 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
the
6 Cytokinin Pathway
8 <130> FILE REFERENCE: 16517.256/38-21(15094)C
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/976,054
C--> 10 <141> CURRENT FILING DATE: 2001-10-15
10 <150> PRIOR APPLICATION NUMBER: US 60/067,000
11 <151> PRIOR FILING DATE: 1997-11-24
13 <150> PRIOR APPLICATION NUMBER: US 60/069,472
14 <151> PRIOR FILING DATE: 1997-12-09
16 <150> PRIOR APPLICATION NUMBER: US 60/071,064
17 <151> PRIOR FILING DATE: 1998-01-09
19 <150> PRIOR APPLICATION NUMBER: US 60/074,201
20 <151> PRIOR FILING DATE: 1998-02-10
22 <150> PRIOR APPLICATION NUMBER: US 60/074,281
23 <151> PRIOR FILING DATE: 1998-02-10
25 <150> PRIOR APPLICATION NUMBER: US 60/074,567
26 <151> PRIOR FILING DATE: 1998-02-12
28 <150> PRIOR APPLICATION NUMBER: US 60/074,565
29 <151> PRIOR FILING DATE: 1998-02-12
31 <150> PRIOR APPLICATION NUMBER: US 60/075,462
32 <151> PRIOR FILING DATE: 1998-02-19
34 <150> PRIOR APPLICATION NUMBER: US 60/075,461
35 <151> PRIOR FILING DATE: 1998-02-19
37 <150> PRIOR APPLICATION NUMBER: US 60/075,464
38 <151> PRIOR FILING DATE: 1998-02-19
40 <150> PRIOR APPLICATION NUMBER: US 60/075,460
41 <151> PRIOR FILING DATE: 1998-02-19
43 <150> PRIOR APPLICATION NUMBER: US 60/075,463
44 <151> PRIOR FILING DATE: 1998-02-19
46 <150> PRIOR APPLICATION NUMBER: US 60/077,231
47 <151> PRIOR FILING DATE: 1998-03-09
49 <150> PRIOR APPLICATION NUMBER: US 60/077,229
50 <151> PRIOR FILING DATE: 1998-03-09
52 <150> PRIOR APPLICATION NUMBER: US 60/077,230
53 <151> PRIOR FILING DATE: 1998-03-09
55 <150> PRIOR APPLICATION NUMBER: US 60/078,368
56 <151> PRIOR FILING DATE: 1998-03-18
58 <150> PRIOR APPLICATION NUMBER: US 60/080,844
59 <151> PRIOR FILING DATE: 1998-04-07
61 <150> PRIOR APPLICATION NUMBER: US 60/083,067
62 <151> PRIOR FILING DATE: 1998-04-27
64 <150> PRIOR APPLICATION NUMBER: US 60/083,387
65 <151> PRIOR FILING DATE: 1998-04-29
67 <150> PRIOR APPLICATION NUMBER: US 60/083,388
68 <151> PRIOR FILING DATE: 1998-04-29

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p. 5

RAW SEQUENCE LISTING

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Input Set : A:\cytoseq2.txt

Output Set: N:\CRF3\11012001\I976054.raw

70 <150> PRIOR APPLICATION NUMBER: US 60/085,224
71 <151> PRIOR FILING DATE: 1998-05-13
73 <150> PRIOR APPLICATION NUMBER: US 60/085,223
74 <151> PRIOR FILING DATE: 1998-05-13
76 <150> PRIOR APPLICATION NUMBER: US 60/085,222
77 <151> PRIOR FILING DATE: 1998-05-13
79 <150> PRIOR APPLICATION NUMBER: US 60/086,186
80 <151> PRIOR FILING DATE: 1998-05-21
82 <150> PRIOR APPLICATION NUMBER: US 60/086,187
83 <151> PRIOR FILING DATE: 1998-05-21
85 <150> PRIOR APPLICATION NUMBER: US 60/086,185
86 <151> PRIOR FILING DATE: 1998-05-21
88 <150> PRIOR APPLICATION NUMBER: US 60/086,184
89 <151> PRIOR FILING DATE: 1998-05-21
91 <150> PRIOR APPLICATION NUMBER: US 60/086,188
92 <151> PRIOR FILING DATE: 1998-05-21
94 <150> PRIOR APPLICATION NUMBER: US 60/089,524
95 <151> PRIOR FILING DATE: 1998-06-16
97 <150> PRIOR APPLICATION NUMBER: US 60/089,810
98 <151> PRIOR FILING DATE: 1998-06-18
100 <150> PRIOR APPLICATION NUMBER: US 60/089,814
101 <151> PRIOR FILING DATE: 1998-06-18
103 <150> PRIOR APPLICATION NUMBER: US 60/090,170
104 <151> PRIOR FILING DATE: 1998-06-22
106 <150> PRIOR APPLICATION NUMBER: US 60/092,036
107 <151> PRIOR FILING DATE: 1998-07-08
109 <150> PRIOR APPLICATION NUMBER: US 60/099,670
110 <151> PRIOR FILING DATE: 1998-09-09
112 <150> PRIOR APPLICATION NUMBER: US 60/099,697
113 <151> PRIOR FILING DATE: 1998-09-09
115 <150> PRIOR APPLICATION NUMBER: US 60/100,674
116 <151> PRIOR FILING DATE: 1998-09-16
118 <150> PRIOR APPLICATION NUMBER: US 60/101,132
119 <151> PRIOR FILING DATE: 1998-09-21
121 <150> PRIOR APPLICATION NUMBER: US 60/101,130
122 <151> PRIOR FILING DATE: 1998-09-21
124 <150> PRIOR APPLICATION NUMBER: US 60/101,508
125 <151> PRIOR FILING DATE: 1998-09-22
127 <150> PRIOR APPLICATION NUMBER: US 60/101,344
128 <151> PRIOR FILING DATE: 1998-09-22
130 <150> PRIOR APPLICATION NUMBER: US 60/101,347
131 <151> PRIOR FILING DATE: 1998-09-22
133 <150> PRIOR APPLICATION NUMBER: US 60/101,343
134 <151> PRIOR FILING DATE: 1998-09-22
136 <150> PRIOR APPLICATION NUMBER: US 60/104,126
137 <151> PRIOR FILING DATE: 1998-10-13
139 <150> PRIOR APPLICATION NUMBER: US 60/104,127
140 <151> PRIOR FILING DATE: 1998-10-13
142 <150> PRIOR APPLICATION NUMBER: US 60/104,124

RAW SEQUENCE LISTING

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Input Set : A:\cytoseq2.txt

Output Set : N:\CRF3\11012001\I976054.raw

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143 <151> PRIOR FILING DATE: 1998-10-13
145 <150> PRIOR APPLICATION NUMBER: US 60/104,121
146 <151> PRIOR FILING DATE: 1998-10-13
148 <150> PRIOR APPLICATION NUMBER: US 60/111,981
149 <151> PRIOR FILING DATE: 1998-12-11
151 <150> PRIOR APPLICATION NUMBER: US 09/199,129
152 <151> PRIOR FILING DATE: 1998-11-24
154 <150> PRIOR APPLICATION NUMBER: US 09/210,297
155 <151> PRIOR FILING DATE: 1998-12-08
157 <150> PRIOR APPLICATION NUMBER: US 09/227,586
158 <151> PRIOR FILING DATE: 1999-01-08
160 <160> NUMBER OF SEQ ID NOS: 711
163 <210> SEQ ID NO: 1
164 <211> LENGTH: 254
165 <212> TYPE: DNA
166 <213> ORGANISM: Zea mays
168 <220> FEATURE:
169 <221> NAME/KEY: unsure
170 <222> LOCATION: (1)...(254) OK
171 <223> OTHER INFORMATION: unsure at all n locations
173 <400> SEQUENCE: 1
W--> 175 cnacgttgct gcncgatccc aangcgnncc gngacacccat cgaentcttt gtcgagcggt 60
W--> 177 acnangaccn anggatcacc gtggttnctg gtgttgnagc nataggggtc atttttggtc 120
W--> 179 ctctatcgc tttagccatt ggcgcaaaat ttgtgccttg angaagccnn agaanttncc 180
W--> 181 angcgangtg atctccgaag agtattctnt ggaanatngn actnacnaga tagaaatgca 240
W--> 183 tgtcgganct gnac 254
186 <210> SEQ ID NO: 2
187 <211> LENGTH: 272
188 <212> TYPE: DNA
189 <213> ORGANISM: Zea mays
191 <220> FEATURE:
192 <221> NAME/KEY: unsure
193 <222> LOCATION: (1)...(272) OK
194 <223> OTHER INFORMATION: unsure at all n locations
196 <400> SEQUENCE: 2
W--> 198 ggacgcgcgtc gaacctgttc gtcgagcggt accgcgggat gggcatcgan gncgtagacn 60
W--> 200 gggattgagg ccaagggtct cgtgttcggc cnggcgatcg cgctggctat tggcgctaag 120
W--> 202 ttcattncctc tgcgcaagcc aaggaaagctc ccagggtgagg tgatctccga gaagtacgtt 180
W--> 204 ctcgagtacg ggactgattg cctggngatg cgtgtcgggg ccatcgagcg atccggcgng 240
W--> 206 cgggtgntgn tcatcgacga cctggttgcg ca 272
209 <210> SEQ ID NO: 3
210 <211> LENGTH: 318
211 <212> TYPE: DNA
212 <213> ORGANISM: Zea mays
214 <220> FEATURE:
215 <221> NAME/KEY: unsure
216 <222> LOCATION: (1)...(318) OK
217 <223> OTHER INFORMATION: unsure at all n locations
219 <400> SEQUENCE: 3

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```

221 gaggccagg gcttcgtgtt cggcccgccg atcgcgctgg gctattggcg ctaagttcat 60
W--> 223 acctctgcgc aagccaagga agtcccagg tgagagattc catgaccatg catgttcnnn 120
W--> 225 nnnnnnnnnn nnnnnnaacc catctccaca ctctgcactg taccagctg ttgtttttgt 180
227 cgatctagt cccagcctgt ggcgacaccc tgatcaagta tatgttttagc gaggagggtt 240
229 cttgcttagc ccataatctc tggacaccgc cagagtgtgt tgtctggcct gcatgcagtt 300
231 gcagtcctcg gaattggga 318
234 <210> SEQ ID NO: 4
235 <211> LENGTH: 279
236 <212> TYPE: DNA
237 <213> ORGANISM: Zea mays
239 <400> SEQUENCE: 4
241 gttccaggac atcacgacac tgctgctcga cccaaggcg ttccgtgaca ccatcgacct 60
243 ctctcgtttag cggtagaagg accaagggat caccgtagtt gctgggtgtg aagctagagg 120
245 gttcattttt ggtcctccta tcgctcttac gatcgggtgt aaatttgtac ctttgaggaa 180
247 gccgaagaag ttgccaggcg aggtgatctc cgaagaatat tctctggaat acggaactga 240
249 caagatagag atgcatgttg gagctgtaca ggccaacga 279
252 <210> SEQ ID NO: 5
253 <211> LENGTH: 440
254 <212> TYPE: DNA
255 <213> ORGANISM: Zea mays
257 <220> FEATURE:
258 <221> NAME/KEY: unsure
259 <222> LOCATION: (1)...(440) OK
260 <223> OTHER INFORMATION: unsure at all n locations
262 <400> SEQUENCE: 5
W--> 264 cgtccgcgcc ggccgacttc gccttttctg ccccgcgctc gcgctcgccg tccnntgagc 60
W--> 266 gtgcgcgctc ccggcgccag gcgagggcag gcggtggtgg cgatggcgtn cgctgatgcg 120
W--> 268 cgcttgccgg ngatcgnctc ctncatccng gtnatncccg acttnccaaa gccagggatn 180
W--> 270 atgtttcagg acatcangan gntgntgttc gateccaagg cgntccgtga caacatatac 240
W--> 272 cattttgtca agcggtagaa ggaccaaggm atcacnttg aaantaggag ttaaagctag 300
W--> 274 agggntcant ttccggaaca ctanncttta naannaattg gtcaaaaatn ggtgncnatt 360
W--> 276 gaggaagcnn aatnagntgc cangcnaaat gatttttnang aatangaatt ttnggaatnn 420
W--> 278 ggaatnntag ataaaaaant 440
281 <210> SEQ ID NO: 6
282 <211> LENGTH: 470
283 <212> TYPE: DNA
284 <213> ORGANISM: Zea mays
286 <220> FEATURE:
287 <221> NAME/KEY: unsure
288 <222> LOCATION: (1)...(470) OK
289 <223> OTHER INFORMATION: unsure at all n locations
291 <400> SEQUENCE: 6
W--> 293 aaggaccaag ggatnaccgt ggttgctggt gttgaagcta gagggttcat ttttgngct 60
W--> 295 gntatgggct ttanccattg gcgcaaaatt tgtgccttg aggaagccga agaanttgc 120
W--> 297 aggcaggtg atctcnaa agtattnttt ggaatatgga actgacaana atagaaatgc 180
W--> 299 atgtcggant ttacaaggc caacaaccgg cctttttgta ntncaatnat cttnttgnta 240
W--> 301 ccggtggaac attttttcaa nttnnaaaaa ttttttaaac tttttgaacc aaaagntttt 300
W--> 303 gaaagtctct ttgttanttn naattnncca aaaantnaan gggccaaana aactttgnga 360
W--> 305 cacgggccaan atttttttcn ttgggaaaaa aaaacacctt aaacngnaan ttttngacnt 420

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Input Set : A:\cytoseq2.txt

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W--> 307 ttttaaaaaan attttngccc ccccaatnct naaaattttt catttttncca 470
310 <210> SEQ ID NO: 7
311 <211> LENGTH: 412
312 <212> TYPE: DNA
313 <213> ORGANISM: Zea mays
315 <220> FEATURE:
316 <221> NAME/KEY: unsure
317 <222> LOCATION: (1)...(412) OK
318 <223> OTHER INFORMATION: unsure at all n locations
320 <400> SEQUENCE: 7
W--> 322 atctgattgn caccggtgga acacnctggt tttctttcaa acttattgaa cgtggttgag 60
W--> 324 naaaggntgt tgagtgtgct tgcntnattg aattggcaga actgaagggc cgagacaaaac 120
W--> 326 ttggggacag ggcagtnttt gttcttgngg aagcagatgc ttgancggaa cttgggactt 180
W--> 328 ctctttctcag agagtttagag ttagecgtgt tgatgctacc tntctggaaa acaacaaagt 240
W--> 330 tncccatggt ggntanagtn nggctgacac gtaataaaan tttcatncca aattgtgatc 300
W--> 332 ccctgaatga natgacaatg tagacatgat tgctgggtcct tgnatactgt gggnttatta 360
W--> 334 ttcacatcaa antaaangga taatccnnga atgggagctn aaaaaaangg ac 412
337 <210> SEQ ID NO: 8
338 <211> LENGTH: 448
339 <212> TYPE: DNA
340 <213> ORGANISM: Zea mays
342 <220> FEATURE:
343 <221> NAME/KEY: unsure
344 <222> LOCATION: (1)...(448)
345 <223> OTHER INFORMATION: unsure at all n locations OK
347 <400> SEQUENCE: 8
W--> 349 ccggcngaag gcnagggcag gcggtgntcg cgatggcggt cntcgacgcy cgcttngggg 60
W--> 351 agattncctc ntgcacccgc gtatnccnng acttentnaa ancagggatc atntannang 120
W--> 353 acataangac antgatgctc gaccnnaaag cgttccgtga caccatcgac gtcttcnttg 180
355 agcgggtacaa ggaccaaagg gatcacccga attgctggtg tggaagctag aggggttcatt 240
W--> 357 tttggncctc tatcgctcta ccatnaatgc gaaatttgta ccttttagga agcctaaaaa 300
W--> 359 atttccaagc caggttaatc tncgaaagaa tattctcttg aatnccnaaa ctnanaaana 360
W--> 361 taaatatnca ttttgganct ttacaancca aacnaattgg gcttttngta tttcnatnat 420
W--> 363 nttattntca cnagtnnaac aatttttt 448
366 <210> SEQ ID NO: 9
367 <211> LENGTH: 437
368 <212> TYPE: DNA
369 <213> ORGANISM: Zea mays
371 <220> FEATURE:
372 <221> NAME/KEY: unsure
373 <222> LOCATION: (1)...(437)
374 <223> OTHER INFORMATION: unsure at all n locations
376 <400> SEQUENCE: 9
378 agacgcgtgg gcggggtcga agaggagctt ggagcttgga ccgaccgag ccccaccgag 60
380 cgagagagag gaaataatgg gtgaagaggc cagctgcaac gccgtcagcg cgatggaggc 120
382 cgccaccaac gccaggccgg ccaaggagaa cggacgcgcg ccggtgtgtg cggaggtagt 180
384 ggcccaggag ggcggcactg acccccggtt gcagggcatc tccgacgcca tccgcgtcgt 240
386 gccgcacttc cccaagcacg gcatcatggt caacgacatc accacgctgc tgctgcgccc 300
388 cagggtgttc aaggacgcgg tcgacctgtt cgtcgagcgc taccgcgga tgccgcatcga 360

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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TIME: 08:02:50

Input Set : A:\cytoseq2.txt

Output Set: N:\CRF3\11012001\I976054.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

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Input Set : A:\cytoseq2.txt

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L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17